### **Appendix C - Cumulative Effects**

According to the Council on Environmental Quality (CEQ) NEPA regulations, "cumulative impact" is the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such actions (40 CFR § 1508.7).

In order to understand the contribution of past actions to the cumulative effects of the Proposed Action and alternatives, this analysis, with the exception of hydrology relies on current environmental conditions as a proxy for the impacts of past actions. This is because existing conditions reflect the aggregate impact of all prior human actions and natural events that have affected the environment and might contribute to cumulative effects. This cumulative effects analysis does not attempt to quantify the effects of past human actions by adding up all prior actions on an action-by-action basis. There are several reasons for not taking this approach. First, a catalog and analysis of all past actions would be impractical to compile and unduly costly to obtain. Current conditions have been impacted by innumerable actions over the last century and trying to isolate the individual actions that continue to have residual impacts would be nearly impossible. Second, providing the details of past actions on an individual basis would not be useful to predict the cumulative effects of the Proposed Action or alternatives. In fact, focusing on individual actions would be less accurate than looking at existing conditions, because there is limited information on the environmental impacts of individual past actions, and one cannot reasonably identify each and every action over the last century that has contributed to current conditions. Additionally, focusing on the impacts of past human actions may ignore the important residual effects of past natural events, which may contribute to cumulative effects just as much as human actions. By looking at current conditions, we are sure to capture all the residual effects of past human actions and natural events, regardless of which particular action or event contributed those effects. Third, the Council on Environmental Quality issued an interpretive memorandum on June 24, 2005 regarding analysis of past actions, which states, "agencies can conduct an adequate cumulative effects analysis by focusing on the current aggregate effects of past actions without delving into the historical details of individual past actions." For these reasons, the analysis of past actions in this section is based on current environmental conditions.

Blacksmith Project Planning Area (51,594) — the boundary was used to assess impacts that extend beyond areas of actual treatment but do not extend outside the assessment area. The effects considered at this level include snags, down wood levels, seral stage distribution, road density and condition, archeological sites, noxious weed presence and fuel loading. Wildlife and watershed cumulative effects in some cases extend beyond these boundaries and are addressed in the resource specialist report for the project. Impacts discussed below for activities within the project planning area are applicable to expand out and discuss impacts from similar activities in these cumulative effect assessment areas.

## **Current Management and Ongoing Activities**

Even if no activities were being proposed under the Blacksmith project, certain management would continue in the area because of past decisions and current land management policies. Such activities that may be considered as appropriate in the cumulative effects analysis include:

- Fuels Reduction and forest health projects including: the Big Grizzly Forest Health and Fuels Reduction Project;
- Personal use firewood gathering consisting of salvage of individual dead trees by the public under a firewood permit system;
- Mining claim activities;

- Recreation including hiking, motorized recreation on designated trails, horseback riding, fishing, camping, driving, hunting, and dispersed camping;
- Activities on private lands within the assessment area;
- Standard levels of maintenance on Forest Service roads and trails;
- Suppression of human-caused fire starts and wildfires under the jurisdiction of the U.S. Forest Service or the California Department of Forestry and Fire Protection.
- Management of Noxious Weeds Weed Eradication and Control on the Eldorado National Forest is intended
  to direct priorities for treatment of noxious weeds across the Forest with a variety of treatment methods
  including hand treatments and herbicide treatments..

### **Reasonably Foreseeable Activities**

The following reasonably foreseeable actions and management are considered in the cumulative effects analysis in this chapter, as appropriate for each resource analyzed.

Timber harvest on private lands – Two known Timber Harvest Plans (THPs), are under preparation in the area. These in addition to timber harvests plans approved by CalFire have been analyzed in this analysis. (http://www.fire.ca.gov/resource\_mgt/resource\_mgt\_forestpractice\_thpstatus.php last visited 1/29/2013).

Table C 1. Present and future foreseeable projects within the project planning area.

Activity
The routine cutting of hazard trees that may threaten the
lines and the periodic treatment of vegetation growing in the
transmission line corridor.
Gathering of dead trees less than 10 inches diameter at eye
level and downed material
A combination of herbicide and hand treatments to reduce
non-native invasive plants. Areas across the Forest are
expected to be prioritize by invasive treatment priority.
Preparation of THPs on private lands is expected to continue.

#### **Past Activities and Events**

For past projects, information from sales is incomplete. When the timber management information was converted from written records to computer-based data, some of the information was unavailable; for example the name of the sale might not have been listed although the acres and type of treatment and year completed were known. In other instances, the database contained the sale name, acres and year of accomplishment, but lacked the activity code.

The relevance of the incomplete data depends on what is lacking. The name of a particular sale would be of little value in evaluating the environmental effects of the harvest. While knowing the activity code (thinning, sanitation salvage, clear cut, etc) is beneficial, the same knowledge can be gained through field visits, interpretation of aerial photography, or both. Incomplete or missing information of these types is not relevant to determining significant

adverse impacts and the decision maker's ability to make a reasoned choice among alternatives. The effects of past timber harvest are accounted for in the assessment of the existing conditions to the extent that the past actions are still affecting particular resources being considered. The cumulative effects stemming from these activities are summarized by resource in Chapter 3.

Table 1 Current and Past Activities on National Forest System Lands from 1983

	Current/	nt/ Past Activities														
Activity	Incomplete Work	1983- 1992	1993- 1997	1998	1999	2000	2001	2002	2003	2004	2008	2009	2010	2011	2012	Grand Total
Animal Damage Control for Reforestation		118	279													398
Area release and weeding		95	4436	158		294		100	218	88						5389
Broadcast Burning - Covers a majority of the unit		51	0													51
Burning of Piled Material		723	92								146					960
Commercial Thin	6235	0	127			98	746	231								7437
Compacting/Crushing of Fuels	589	0	0								35				222	846
Control of Understory Vegetation	5543	0	0													5543
Fill-in or Replant Trees		151	1324	203	41	45		199				112				2074
Overstory Removal Cut (from advanced regeneration) (EA/RH/FH)		56	0													56
Patch Clearcut (EA/RH/FH)		0	127													127
Piling of Fuels, Hand or Machine	5110	0	0				30							88		5228
Plant Trees		2068	1399		219	177	199		107	35	112					4316
Precommercial Thin	6089	95	805	507	238	300	35	35							87	8192
Rearrangement of Fuels		0	0						129							129

	Current/	Past Activities														
Activity	Incomplete Work	1983- 1992	1993- 1997	1998	1999	2000	2001	2002	2003	2004	2008	2009	2010	2011	2012	Grand Total
Salvage Cut (intermediate treatment, not regeneration)		149	0								114					262
Sanitation (salvage)		285	0													285
Single-tree Selection Cut (UA/RH/FH)		32	0		434	174										640
Site preparation for planting		607	198		158	224	139									1323
Site Preparation for Planting - Burning		191	160			117										467
Site Preparation for Planting - Chemical		0	146													146
Site Preparation for Planting - Mechanical		1256	460	94		56		36								1902
Stand Clearcut (EA/RH/FH)		2644	0													2644
Stand Clearcut (w/ leave trees) (EA/RH/FH)		0	12	56												68
Stand clearcutting - Salvage Mortality		16	0													16
Thinning for Hazardous Fuels Reduction	77	0	0													77
Tree Release and Weed	38	2632	277			122	99		99			112	48		328	3755
Watershed Resource Non-Structural Improvements Erosion		0	0						34							34
Grand Total	23682	11164	9841	1018	1090	1608	1249	602	587	123	406	224	48	88	637	52367

#### **Commercial and Non-commercial Harvest**

Moderate to Intensive Harvest

- Overstory removal cut (from advanced regeneration)
- Patch clearcutting (EA/RN/FH)
- Tractor or Rubber Tired Skidder Stand clearcutting - Salvage Mortality, Stand clearcutting (w/res), Stand clearcutting, Cable - Stand Clearcutting(EA/RH/FH)

Low to Moderate Harvest

- Commercial Thinning
- Sanitation (salvage), Salvage cut (intermediate treatment, not regeneration) \* Not all acres identified may have received treatment as large areas were identified for salvage treatments that only removed select trees across the area.
- Precommercial thinning individual or selected trees

# **Effects of Commercial and Non-Commercial Harvest Treatments**

Regeneration Harvest had the general objective to favor development of desired species, and generally encourage longlived seral species (ponderosa pine, Douglas-fir, and sugar pine)

Thinning Harvests had the general objective to stimulate growth of remaining trees, increase total yield, and utilize trees that are suppressed by crowded conditions. Thinning generally encourages more shade tolerant species such as white fir and cedar although selection for retention of desired species would favor those species persistence on the site.

Sanitation and Salvage cutting removed trees that would have otherwise contributed to snag levels within stands.

#### **Planting**

Fill-in planting without concurrent site preparation, Full planting without concurrent site preparation

#### **Other Vegetation Treatments and Animal Damage Control**

Animal Damage Control for Reforestation

Area release and weeding, Individual tree release and weeding, Release or weeding need addition, Chemical Site Preparation. Pesticide Application

Burning - Burning of Piled Material, Burning site preparation for planting, Broadcast burning.

Site preparation for planting (mechanical)

Piling of Fuels, Hand or Machine, Rearrangement of Fuels

#### **Effects of Planting**

Planting activities typically favored ponderosa pine, sugar pine, and Douglas-fir.

# Effects of Other Vegetation Treatments and Animal Damage Control

Site preparation, prescribed burning and area release treatments modified and delayed brush, grass, and forb composition within stands and encouraged tree growth for a limited time. The effect on species composition would have been an increase in seedling survival of desired species.

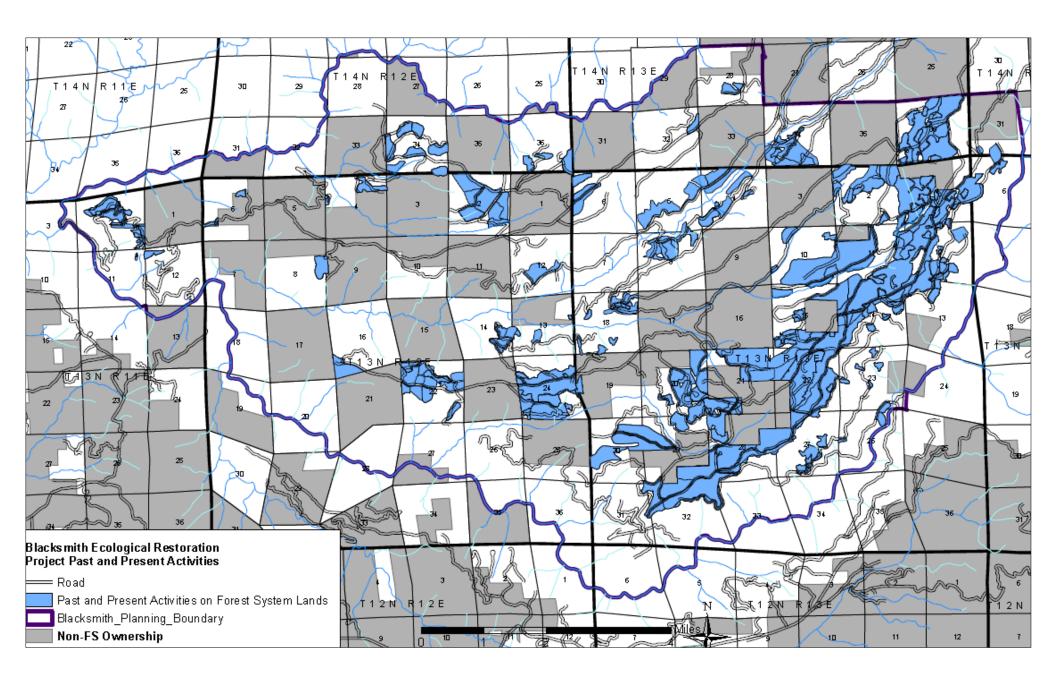
#### Table 2Forest Service Project Activities since 1983 by project, where name is known

Activities by project	Acres
BAUMANN	
Animal Damage Control for Reforestation	95
Area release and weeding	335
Burning of Piled Material	25
Fill-in or Replant Trees	31
Plant Trees	437
Precommercial Thin	95

Sanitation (salvage)         8           Site preparation for planting         8           Site Preparation for Planting - Burning         13           Site Preparation for Planting - Mechanical         398           Stand Clearcut (EA/RH/FH)         403           BEAR FIR TS           Fill-in or Replant Trees         44           Single-tree Selection Cut (UA/RH/FH)         30           BIG CAT SSTS           Single-tree Selection Cut (UA/RH/FH)         623           Commercial Thin         6235           Compacting/Crushing of Fuels         811           Compacting/Crushing of Fuels         811           Compacting/Crushing of Fuels         811           Compacting/Crushing of Fuels         811           Precommercial Thin         6104           Tree Release and Weed         36           CHAIX CABLE         8           Area release and Weed         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         7           CLAUSSEMIUS      <	Activities by project	Acres
Site Preparation for Planting - Burning         18           Site Preparation for Planting - Mechanical         398           Stand Clearcut (EA/RH/FH)         418           Tree Release and Weed         403           BEAR FIR TS         ************************************	Sanitation (salvage)	8
Site Preparation for Planting - Mechanical         398           Stand Clearcut (EA/RH/FH)         418           Tree Release and Weed         403           BEAR FIR TS         ************************************	Site preparation for planting	8
Stand Clearcut (EA/RH/FH)         418           Tree Release and Weed         403           BEAR FIR TS         Fill-in or Replant Trees         44           Single-tree Selection Cut (UA/RH/FH)         30           BIG CAT SSTS         Single-tree Selection Cut (UA/RH/FH)         4           BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT         Commercial Thin         6235           Compacting/Crushing of Fuels         811         Control of Understory Vegetation         5543           Pilling of Fuels, Hand or Machine         5198         Precommercial Thin         6104           Tree Release and Weed         366         604           CHAIX CABLE         4         18           Area release and Weeding         18         18           Broadcast Burning - Covers a majority of the unit         17         19           Plant Trees         19         19           Step Preparation for Planting - Mechanical         18         18           CLAUSSENIUS         19         18         18           CLAUSSENIUS         10         18         18           Salvage Cut (intermediate treatment, not regeneration)         1         1           DEERVIEW 73 BO         7         1         10           Area rel	Site Preparation for Planting - Burning	18
Tree Release and Weed         403           BEAR FIR TS         44           Fill-in or Replant Trees         44           Single-tree Selection Cut (UA/RH/FH)         30           BIG CAT SSTS         Single-tree Selection Cut (UA/RH/FH)         4           BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT         6235           Commercial Thin         6235           Compacting/Crushing of Fuels         811           Control of Understory Vegetation         5543           Pliing of Fuels, Hand or Machine         5198           Precommercial Thin         6104           Tree Release and Weed         366           CHAIX CABLE         366           Area release and Weed         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         18           CLAUSSENIUS         30           Salvage Cut (intermediate treatment, not regeneration)         1           DEERVIEW 73 BO         30           Area release and Weed         7           EDSON CABLE         40	Site Preparation for Planting - Mechanical	398
BEAR FIR TS           Fill-in or Replant Trees         44           Single-tree Selection Cut (UA/RH/FH)         30           BIG CAT SSTS           Single-tree Selection Cut (UA/RH/FH)         4           BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT         5235           Compacting/Crushing of Fuels         811           Control of Understory Vegetation         5543           Piling of Fuels, Hand or Machine         5198           Precommercial Thin         6104           Tree Release and Weed         366           CHAIX CABLE         4           Area release and weeding         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         18           CLAUSSENIUS         30           Salvage Cut (intermediate treatment, not regeneration)         1           DEERVIEW 73 BO         30           Area release and Weed         7           Tee Release and Weed         7           FIBI-in or Replant Trees         30           Fill-in or Replant Trees         111	Stand Clearcut (EA/RH/FH)	418
Fill-in or Replant Trees         44           Single-tree Selection Cut (UA/RH/FH)         30           BIG CAT SSTS         Single-tree Selection Cut (UA/RH/FH)         4           BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT         Commercial Thin         6235           Compacting/Crushing of Fuels         811           Control of Understory Vegetation         5543           Piling of Fuels, Hand or Machine         5198           Precommercial Thin         6104           Tree Release and Weed         366           CHAIX CABLE         4           Area release and weeding         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         18           CLAUSSENIUS         30           Salvage Cut (intermediate treatment, not regeneration)         1           DEERVIEW 73 BO         30           Area release and Weed         7           EDSON CABLE         511           Fill-in or Replant Trees         40           Plant Trees         11           Site Preparation for Planting - M	Tree Release and Weed	403
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Single-tree Selection Cut (UA/RH/FH)         4           BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT         6235           Commercial Thin         6235           Compacting/Crushing of Fuels         811           Control of Understory Vegetation         5543           Pilling of Fuels, Hand or Machine         5198           Precommercial Thin         6104           Tree Release and Weed         366           CHAIX CABLE         1           Area release and weeding         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         18           CLAUSSENIUS         1           Salvage Cut (intermediate treatment, not regeneration)         1           DEERVIEW 73 BO         30           Area release and weeding         30           Plant Trees         30           Tee Release and Weed         7           EDSON CABLE         11           Fill-in or Replant Trees         40           Plant Trees         31           Site Preparation for Planting - Mechanical	Single-tree Selection Cut (UA/RH/FH)	30
BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT  Commercial Thin 6235  Compacting/Crushing of Fuels 811  Control of Understory Vegetation 5543  Piling of Fuels, Hand or Machine 5198  Precommercial Thin 6104  Tree Release and Weed 366  CHAIX CABLE  Area release and weeding 18  Broadcast Burning - Covers a majority of the unit 17  Plant Trees 19  Site Preparation for Planting - Mechanical 19  Stand Clearcut (EA/RH/FH) 19  Tree Release and Weed 18  CLAUSSENIUS  Salvage Cut (intermediate treatment, not regeneration) 1  DEERVIEW 73 BO  Area release and weeding 30  Plant Trees 30  Tree Release and Weed 7  EDSON CABLE  Fill-in or Replant Trees 40  Plant Trees 111  Site Preparation for Planting - Mechanical 7  FRENCH HOUSE CBL  Plant Trees 31  Sanitation (salvage) 31  Site Preparation for Planting - Mechanical 31  Tree Release and Weed 61  Tree Release and Weed 7  FRENCH HOUSE CBL  Plant Trees 31  Sanitation (salvage) 31  Site Preparation for Planting - Mechanical 31  Tree Release and Weed 61	BIG CAT SSTS	
Commercial Thin         6235           Compacting/Crushing of Fuels         811           Control of Understory Vegetation         5543           Pilling of Fuels, Hand or Machine         5198           Precommercial Thin         6104           Tree Release and Weed         366           CHAIX CABLE         8           Area release and weeding         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         18           CLAUSSENIUS           Salvage Cut (intermediate treatment, not regeneration)         1           DEERVIEW 73 BO           Area release and weeding         30           Plant Trees         30           Tree Release and Weed         7           EDSON CABLE         111           Fill-in or Replant Trees         40           Plant Trees         11           Site Preparation for Planting - Mechanical         7           FRENCH HOUSE CBL           Plant Trees         31           Sanitation (salvage)         <	Single-tree Selection Cut (UA/RH/FH)	4
Compacting/Crushing of Fuels         811           Control of Understory Vegetation         5543           Piling of Fuels, Hand or Machine         5198           Precommercial Thin         6104           Tree Release and Weed         366           CHAIX CABLE           Area release and weeding         18           Broadcast Burning - Covers a majority of the unit         17           Plant Trees         19           Site Preparation for Planting - Mechanical         19           Stand Clearcut (EA/RH/FH)         19           Tree Release and Weed         18           CLAUSSENIUS           Salvage Cut (intermediate treatment, not regeneration)         1           DEERVIEW 73 BO           Area release and weeding         30           Plant Trees         30           Tree Release and Weed         7           EDSON CABLE         11           Fill-in or Replant Trees         40           Plant Trees         11           Site Preparation for Planting - Mechanical         7           FRENCH HOUSE CBL           Plant Trees         31           Sanitation (salvage)         31           Site Preparation for Planting - Mechanica	BIG GRIZZLY FOREST HEALTH AND FUELS REDUCTION PROJECT	
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Salvage Cut (intermediate treatment, not regeneration)  DEERVIEW 73 BO  Area release and weeding  Plant Trees  30  Tree Release and Weed  7  EDSON CABLE  Fill-in or Replant Trees  40  Plant Trees  111  Site Preparation for Planting - Mechanical  7  FRENCH HOUSE CBL  Plant Trees  31  Sanitation (salvage)  Site Preparation for Planting - Mechanical  31  Tree Release and Weed  61	Tree Release and Weed	18
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Area release and weeding  Plant Trees  30  Tree Release and Weed  7  EDSON CABLE  Fill-in or Replant Trees  40  Plant Trees  111  Site Preparation for Planting - Mechanical  7  FRENCH HOUSE CBL  Plant Trees  31  Sanitation (salvage)  31  Site Preparation for Planting - Mechanical  31  Tree Release and Weed  61	Salvage Cut (intermediate treatment, not regeneration)	1
Plant Trees30Tree Release and Weed7EDSON CABLE40Fill-in or Replant Trees40Plant Trees111Site Preparation for Planting - Mechanical7FRENCH HOUSE CBL31Plant Trees31Sanitation (salvage)31Site Preparation for Planting - Mechanical31Tree Release and Weed61	DEERVIEW 73 BO	
Tree Release and Weed 7  EDSON CABLE  Fill-in or Replant Trees 40  Plant Trees 1111  Site Preparation for Planting - Mechanical 7  FRENCH HOUSE CBL  Plant Trees 31  Sanitation (salvage) 31  Site Preparation for Planting - Mechanical 31  Tree Release and Weed 61	Area release and weeding	30
Fill-in or Replant Trees 40 Plant Trees 1111 Site Preparation for Planting - Mechanical 7 FRENCH HOUSE CBL Plant Trees 311 Sanitation (salvage) 311 Site Preparation for Planting - Mechanical 311 Tree Release and Weed 61	Plant Trees	30
Fill-in or Replant Trees 40 Plant Trees 111 Site Preparation for Planting - Mechanical 7 FRENCH HOUSE CBL  Plant Trees 31 Sanitation (salvage) 31 Site Preparation for Planting - Mechanical 31 Tree Release and Weed 61	Tree Release and Weed	7
Plant Trees 111 Site Preparation for Planting - Mechanical 7 FRENCH HOUSE CBL  Plant Trees 31 Sanitation (salvage) 31 Site Preparation for Planting - Mechanical 31 Tree Release and Weed 61	EDSON CABLE	
Site Preparation for Planting - Mechanical7FRENCH HOUSE CBLPlant Trees31Sanitation (salvage)31Site Preparation for Planting - Mechanical31Tree Release and Weed61	Fill-in or Replant Trees	40
FRENCH HOUSE CBLPlant Trees31Sanitation (salvage)31Site Preparation for Planting - Mechanical31Tree Release and Weed61	Plant Trees	111
Plant Trees 31 Sanitation (salvage) 31 Site Preparation for Planting - Mechanical 31 Tree Release and Weed 61	Site Preparation for Planting - Mechanical	7
Sanitation (salvage)31Site Preparation for Planting - Mechanical31Tree Release and Weed61	FRENCH HOUSE CBL	
Site Preparation for Planting - Mechanical 31 Tree Release and Weed 61	Plant Trees	31
Tree Release and Weed 61	Sanitation (salvage)	31
	Site Preparation for Planting - Mechanical	31
Burning of Piled Material 5	Tree Release and Weed	61
	Burning of Piled Material	5

Stand Clearcut (EA/RH/FH)         5           LONG CANYON         10           Area release and weeding         114           Burning of Piled Material         49           Plant Trees         95           Site Preparation for Planting - Chemical         40           Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS         728           Commercial Thin         728           PARSLEY CABLE         99           Fill-in or Replant Trees         99           PICKLE TS         8           Area release and weeding         6           RALIROAD TS         88           Area release and weeding         88           Plant Trees         136           Site Preparation for Planting - Mechanical         36           RALISTON MINE         85           Animal Damage Control for Reforestation         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (w	Activities by project	Acres
Animal Damage Control for Reforestation         10           Area release and weeding         114           Burning of Piled Material         49           Plant Trees         95           Site Preparation for Planting - Mechanical         95           Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS         Commercial Thin         728           Commercial Thin         728           PARSLEY CABLE         Fill-in or Replant Trees         99           PICKLE TS         4           Area release and weeding         6           RAILROAD TS         48           Area release and weeding         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RALSTON MINE         4           Animal Damage Control for Reforestation         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         56           Stand Clearcut (EA/RH/FH)         22           Stand Clearcut (w/ leave tr	Stand Clearcut (EA/RH/FH)	5
Area release and weeding         114           Burning of Piled Material         49           Plant Trees         95           Site Preparation for Planting - Chemical         40           Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS	LONG CANYON	
Burning of Piled Material         49           Plant Trees         95           Site Preparation for Planting - Chemical         40           Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS           Commercial Thin         728           PARSLEY CABLE           Fill-in or Replant Trees         99           PICKLE TS           Area release and weeding         6           RAILROAD TS           Area release and weeding         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RALSTON MINE           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         23           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (well eave trees) (EA/RH/FH)         56           TANNER'S POINT CABLE         56	Animal Damage Control for Reforestation	10
Plant Trees         95           Site Preparation for Planting - Chemical         40           Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS           Commercial Thin         728           PARSLEY CABLE           Fill-in or Replant Trees         99           PICKLE TS           Area release and weeding         6           RAILROAD TS           Area release and weeding         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RAILSTON MINE           Animal Damage Control for Reforestation         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (well eave trees) (EA/RH/FH)         56           Stand Clearcut (well eav	Area release and weeding	114
Site Preparation for Planting - Chemical         40           Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS         Commercial Thin         728           PARSLEY CABLE         Fill-in or Replant Trees         99           PICKLE TS         Area release and weeding         6           RAILROAD TS         Area release and weeding         88           Plant Trees         143           Site Preparation for Planting - Mechanical         85           RALSTON MINE         Animal Damage Control for Reforestation         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (EA/RH/FH)         222           Tree Release and Weed         234           SAWPIT CABLE         Fill-in or Replant Trees         56           Stand Clearcut (w/ leave trees) (EA/RH/FH)         56 <td< td=""><td>Burning of Piled Material</td><td>49</td></td<>	Burning of Piled Material	49
Site Preparation for Planting - Mechanical         95           Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS	Plant Trees	95
Stand Clearcut (EA/RH/FH)         95           Tree Release and Weed         78           LOWER LONG TS         728           Commercial Thin         728           PARSLEY CABLE         99           Fill-in or Replant Trees         99           PICKLE TS         8           Area release and weeding         6           RAILROAD TS         143           Area release and weeding         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RALSTON MINE         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (EA/RH/FH)         25           Tanner's Point Cable         56           Area release and weeding         75           Plant Trees         66           Site Preparation for Planting - Burning         43           TRANSYLVANIA FIRE SALVAGE           Burning of Piled Material         146	Site Preparation for Planting - Chemical	40
Tree Release and Weed         78           LOWER LONG TS         728           Commercial Thin         728           PARSLEY CABLE         99           Fill-in or Replant Trees         99           PICKLE TS         4           Area release and weeding         6           RAILROAD TS         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RALSTON MINE         4           Animal Damage Control for Reforestation         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (w/ leave trees) (EA/RH/FH)         56           Stand Clearcut (w/ leave trees) (EA/RH/FH)         56           TANNER'S POINT CABLE         56           Stand Preparation for Planting - Burning         43           TRANSYLVANIA FIRE SALVAGE         50           Burning of Piled Material         146           Compacting/Crushing of Fuels         35 <tr< td=""><td>Site Preparation for Planting - Mechanical</td><td>95</td></tr<>	Site Preparation for Planting - Mechanical	95
LOWER LONG TS           Commercial Thin         728           PARSLEY CABLE         99           Fill-in or Replant Trees         99           PICKLE TS         6           Area release and weeding         6           RAILROAD TS         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RALSTON MINE         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (EA/RH/FH)         26           Stand Clearcut (w/ leave trees) (EA/RH/FH)         56           Stand Clearcut (w/ leave trees) (EA/RH/FH)         56           TANNER'S POINT CABLE         56           Area release and weeding         75           Plant Trees         66           Site Preparation for Planting - Burning         43           TRANSYLVANIA FIRE SALVAGE           Burning of Piled Material         146           Compacting/Crushing of Fuels         35	Stand Clearcut (EA/RH/FH)	95
Commercial Thin         728           PARSLEY CABLE         99           Fill-in or Replant Trees         99           PICKLE TS         Area release and weeding         6           RAILROAD TS         88           Area release and weeding         88           Plant Trees         143           Site Preparation for Planting - Mechanical         36           RALSTON MINE         8           Animal Damage Control for Reforestation         85           Area release and weeding         260           Burning of Piled Material         56           Fill-in or Replant Trees         42           Plant Trees         239           Site Preparation for Planting - Mechanical         222           Stand Clearcut (EA/RH/FH)         222           Stand Clearcut (EA/RH/FH)         25           Tree Release and Weed         234           SAWPIT CABLE         56           Stand Clearcut (w/ leave trees) (EA/RH/FH)         56           TANNER'S POINT CABLE         4           Area release and weeding         75           Plant Trees         66           Site Preparation for Planting - Burning         43           TRANSYLVANIA FIRE SALVAGE           Bu	Tree Release and Weed	78
Fill-in or Replant Trees 99 PICKLE TS Area release and weeding 6 RAILROAD TS Area release and weeding 888 Plant Trees 143 Site Preparation for Planting - Mechanical 36 RALSTON MINE Animal Damage Control for Reforestation 85 Area release and weeding 260 Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 262 Stand Clearcut (EA/RH/FH) 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 234 SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56 TANNER'S POINT CABLE Area release and weeding 75 Fill-in trees 66 Site Preparation for Planting - Mechanical 36 TANNER'S POINT CABLE Area release and Weed 37 TANNER'S POINT CABLE Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	LOWER LONG TS	
Fill-in or Replant Trees 99  PICKLE TS  Area release and weeding 6  RAILROAD TS  Area release and weeding 88  Plant Trees 143  Site Preparation for Planting - Mechanical 36  RALSTON MINE  Animal Damage Control for Reforestation 85  Area release and weeding 260  Burning of Piled Material 56  Fill-in or Replant Trees 42  Plant Trees 239  Site Preparation for Planting - Mechanical 222  Stand Clearcut (EA/RH/FH) 222  Stand Clearcut (EA/RH/FH) 222  Stand Clearcut (Weleave trees) (EA/RH/FH) 56  Stand Clearcut (Weleave trees) (EA/RH/FH) 56  Stand Clearcut (Weleave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Fill-in Trees 66  Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 75  Precommercial Thin 72	Commercial Thin	728
PICKLE TS  Area release and weeding 6  RAILROAD TS  Area release and weeding 88  Plant Trees 143  Site Preparation for Planting - Mechanical 36  RALSTON MINE  Animal Damage Control for Reforestation 85  Area release and weeding 260  Burning of Piled Material 56  Fill-in or Replant Trees 422  Plant Trees 239  Site Preparation for Planting - Mechanical 222  Stand Clearcut (EA/RH/FH) 222  Stand Clearcut (EA/RH/FH) 222  Tree Release and Weed 234  SAWPIT CABLE  Fill-in or Replant Trees 56  Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75  Plant Trees 66  Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 75  Precommercial Thin 72	PARSLEY CABLE	
Area release and weeding  RAILROAD TS  Area release and weeding  Plant Trees  Site Preparation for Planting - Mechanical  Animal Damage Control for Reforestation  Area release and weeding  Area release and weeding  Burning of Piled Material  Fill-in or Replant Trees  42  Plant Trees  339  Site Preparation for Planting - Mechanical  222  Stand Clearcut (EA/RH/FH)  222  Stand Clearcut (EA/RH/FH)  Tree Release and Weed  SAWPIT CABLE  Fill-in or Replant Trees  56  Stand Clearcut (w/ leave trees) (EA/RH/FH)  56  TANNER'S POINT CABLE  Area release and weeding  75  Plant Trees  66  Site Preparation for Planting - Burning  75  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material  Compacting/Crushing of Fuels  72  Precommercial Thin	Fill-in or Replant Trees	99
Area release and weeding 88 Plant Trees 143 Site Preparation for Planting - Mechanical 36 RALSTON MINE Animal Damage Control for Reforestation 85 Area release and weeding 260 Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 234 SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56 TANNER'S POINT CABLE Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE Burning of Piled Material 146 Compacting/Crushing of Fuels 36 Precommercial Thin 72	PICKLE TS	
Area release and weeding Plant Trees 143 Site Preparation for Planting - Mechanical RALSTON MINE Animal Damage Control for Reforestation 85 Area release and weeding 260 Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 222 Stand Clearcut (EA/RH/FH) 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 334 SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56 TANNER'S POINT CABLE Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE Burning of Piled Material 146 Compacting/Crushing of Fuels 72	Area release and weeding	6
Plant Trees143Site Preparation for Planting - Mechanical36RALSTON MINEAnimal Damage Control for Reforestation85Area release and weeding260Burning of Piled Material56Fill-in or Replant Trees42Plant Trees239Site Preparation for Planting - Mechanical222Stand Clearcut (EA/RH/FH)222Tree Release and Weed234SAWPIT CABLE56Fill-in or Replant Trees56Stand Clearcut (w/ leave trees) (EA/RH/FH)56TANNER'S POINT CABLE75Area release and weeding75Plant Trees66Site Preparation for Planting - Burning43TRANSYLVANIA FIRE SALVAGEBurning of Piled Material146Compacting/Crushing of Fuels35Precommercial Thin72	RAILROAD TS	
Site Preparation for Planting - Mechanical  RALSTON MINE  Animal Damage Control for Reforestation  Area release and weeding  Burning of Piled Material  Fill-in or Replant Trees  42  Plant Trees  339  Site Preparation for Planting - Mechanical  222  Stand Clearcut (EA/RH/FH)  222  Tree Release and Weed  334  SAWPIT CABLE  Fill-in or Replant Trees  56  Stand Clearcut (w/ leave trees) (EA/RH/FH)  56  TANNER'S POINT CABLE  Area release and weeding  75  Plant Trees  66  Site Preparation for Planting - Burning  43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material  Compacting/Crushing of Fuels  72	Area release and weeding	88
RALSTON MINE  Animal Damage Control for Reforestation 85 Area release and weeding 260 Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 234 SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56 TANNER'S POINT CABLE Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE Burning of Piled Material 146 Compacting/Crushing of Fuels 75 Precommercial Thin 72	Plant Trees	143
Animal Damage Control for Reforestation Area release and weeding Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 234  SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 55 TANNER'S POINT CABLE Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels Precommercial Thin 72	Site Preparation for Planting - Mechanical	36
Area release and weeding Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 234  SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 72	RALSTON MINE	
Burning of Piled Material 56 Fill-in or Replant Trees 42 Plant Trees 239 Site Preparation for Planting - Mechanical 222 Stand Clearcut (EA/RH/FH) 222 Tree Release and Weed 234  SAWPIT CABLE Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	Animal Damage Control for Reforestation	85
Fill-in or Replant Trees 239  Plant Trees 239  Site Preparation for Planting - Mechanical 222  Stand Clearcut (EA/RH/FH) 222  Tree Release and Weed 234  SAWPIT CABLE  Fill-in or Replant Trees 56  Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75  Plant Trees 66  Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 35  Precommercial Thin 72	Area release and weeding	260
Plant Trees239Site Preparation for Planting - Mechanical222Stand Clearcut (EA/RH/FH)222Tree Release and Weed234SAWPIT CABLEFill-in or Replant Trees56Stand Clearcut (w/ leave trees) (EA/RH/FH)56TANNER'S POINT CABLEArea release and weeding75Plant Trees66Site Preparation for Planting - Burning43TRANSYLVANIA FIRE SALVAGEBurning of Piled Material146Compacting/Crushing of Fuels35Precommercial Thin72	Burning of Piled Material	56
Site Preparation for Planting - Mechanical 222  Stand Clearcut (EA/RH/FH) 222  Tree Release and Weed 234  SAWPIT CABLE  Fill-in or Replant Trees 56  Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75  Plant Trees 66  Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 35  Precommercial Thin 72	Fill-in or Replant Trees	42
Stand Clearcut (EA/RH/FH)  Tree Release and Weed  234  SAWPIT CABLE  Fill-in or Replant Trees  56  Stand Clearcut (w/ leave trees) (EA/RH/FH)  56  TANNER'S POINT CABLE  Area release and weeding  75  Plant Trees  66  Site Preparation for Planting - Burning  43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material  Compacting/Crushing of Fuels  Precommercial Thin  72	Plant Trees	239
Tree Release and Weed 234  SAWPIT CABLE  Fill-in or Replant Trees 56  Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75  Plant Trees 66  Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 35  Precommercial Thin 72	Site Preparation for Planting - Mechanical	222
Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	Stand Clearcut (EA/RH/FH)	222
Fill-in or Replant Trees 56 Stand Clearcut (w/ leave trees) (EA/RH/FH) 56  TANNER'S POINT CABLE  Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	Tree Release and Weed	234
Stand Clearcut (w/ leave trees) (EA/RH/FH)56TANNER'S POINT CABLEArea release and weeding75Plant Trees66Site Preparation for Planting - Burning43TRANSYLVANIA FIRE SALVAGEBurning of Piled Material146Compacting/Crushing of Fuels35Precommercial Thin72	SAWPIT CABLE	
TANNER'S POINT CABLE  Area release and weeding 75  Plant Trees 66  Site Preparation for Planting - Burning 43  TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 35  Precommercial Thin 72	Fill-in or Replant Trees	56
Area release and weeding 75 Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	Stand Clearcut (w/ leave trees) (EA/RH/FH)	56
Plant Trees 66 Site Preparation for Planting - Burning 43 TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	TANNER'S POINT CABLE	
Site Preparation for Planting - Burning TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72	Area release and weeding	75
TRANSYLVANIA FIRE SALVAGE  Burning of Piled Material 146  Compacting/Crushing of Fuels 35  Precommercial Thin 72		66
Burning of Piled Material 146 Compacting/Crushing of Fuels 35 Precommercial Thin 72		43
Compacting/Crushing of Fuels35Precommercial Thin72	TRANSYLVANIA FIRE SALVAGE	
Precommercial Thin 72	Burning of Piled Material	146
	Compacting/Crushing of Fuels	35
Salvage Cut (intermediate treatment, not regeneration) 112	Precommercial Thin	72
	Salvage Cut (intermediate treatment, not regeneration)	112

	Acres
Thinning for Hazardous Fuels Reduction	77
TRANSYLVANIA REFORESTATION PROJECT	
Fill-in or Replant Trees	112
Plant Trees	112
Tree Release and Weed	160
WALLACE CBL 93 BO	
Site Preparation for Planting - Mechanical	37
Stand Clearcut (EA/RH/FH)	155
PROJECT NAME NOT IDENTIFIED	
Animal Damage Control for Reforestation	209
Area release and weeding	4462
Broadcast Burning - Covers a majority of the unit	34
Burning of Piled Material	679
Commercial Thin	474
Fill-in or Replant Trees	1650
Overstory Removal Cut (from advanced regeneration) (EA/RH/FH)	56
Patch Clearcut (EA/RH/FH)	127
Piling of Fuels, Hand or Machine	30
Plant Trees	3035
Precommercial Thin	1921
Rearrangement of Fuels	129
Salvage Cut (intermediate treatment, not regeneration)	149
Sanitation (salvage)	247
Single-tree Selection Cut (UA/RH/FH)	605
Site preparation for planting	1316
Site Preparation for Planting - Burning	406
Site Preparation for Planting - Chemical	106
Site Preparation for Planting - Mechanical	1057
Stand Clearcut (EA/RH/FH)	1659
Stand Clearcut (w/ leave trees) (EA/RH/FH)	12
Stand clearcutting - Salvage Mortality	16
Tree Release and Weed	2427



Assumptions and methods used in gathering private land information: Private land owners have no duty or obligation to report timber harvest activities to the Forest Service. Data in the following table was summarized from CAL FIRE's Forest Practice Geographical Information System (GIS) available for download at <a href="ftp://ftp.fire.ca.gov/forest">ftp://ftp.fire.ca.gov/forest</a>. (1/29/2013). This data includes activities since 1995. Data for activities prior to 1995 are reflected in the current conditions of the project area.

					Seed Tree			Shelterwood Removal/	
		Commercial	Group	Sanitation	Removal		Shelterwood	Commercial	Grand
Activity	Clearcut	Thin	Selection	Salvage	Cut	Selection	Removal Cut	Thin	Total
1995	149				16		243		469
1996	129					20			149
1998	75					9	103		187
1999							108		108
2001						576			576
2002	216								1107
2003			602	17	44		457		1120
2004	68		1230				2204	116	4015
2005	42	29	30			59	475		689
2006	454	48				3			505
2007	111		339	32		20	15		543
2008	121		388		31		146		724
2009		13	124			29			173
2010	108		100	5					213
2012	411		207		12				629
Grand									
Total	1885	90	3020	54	103	716	3751	116	11207

#### **Effects of Commercial Harvest Treatments**

- Regeneration Harvest had the general objective to favor development of desired species, and generally encourage long-lived seral species (ponderosa pine, Douglas-fir, and sugar pine). Objectives could have also been economic.
- Thinning Harvests had the general objective to stimulate growth of remaining trees, increase total yield, and utilize trees that are suppressed by crowded conditions. Thinning generally encourages more shade tolerant species such as white fir and cedar although selection for retention of desired species would favor those species persistence on the site.
- Sanitation and Salvage cutting removed trees that would have otherwise contributed to snag levels within stands

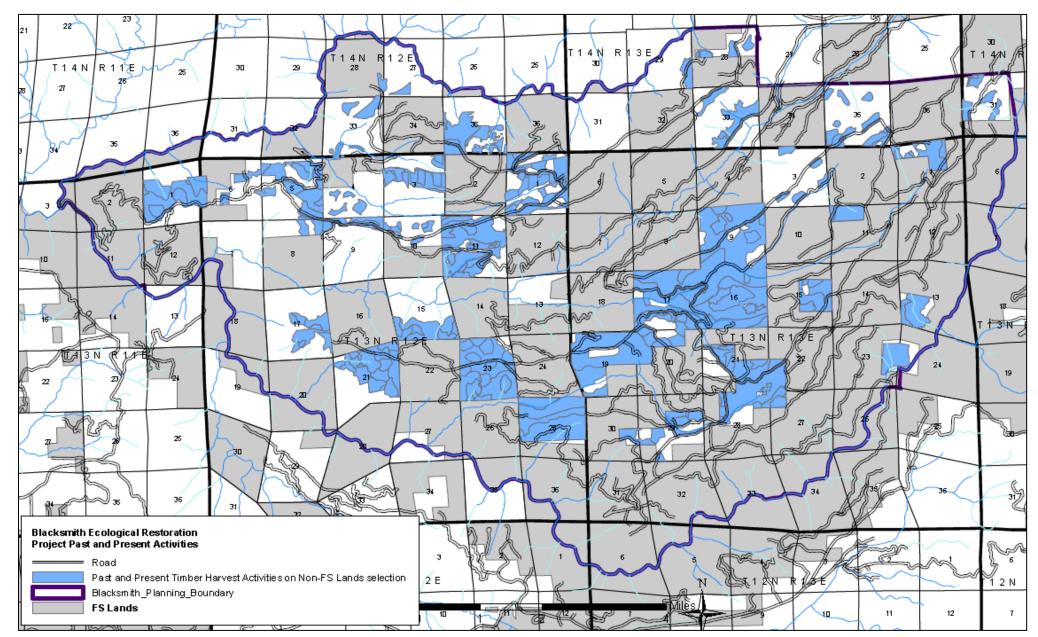


Figure 1. Timber Harvest Plan Activities on Non-Forest System Lands from 1995-2012